

42 Kuala Lumpur _Hackathon Asia 2024

22.3 million people

Total Addressable Market (TAM)

13.4 million people

Serviceable Available Market (SAM)

0.94 million people

Serviceable Obtainable Market (SOM)



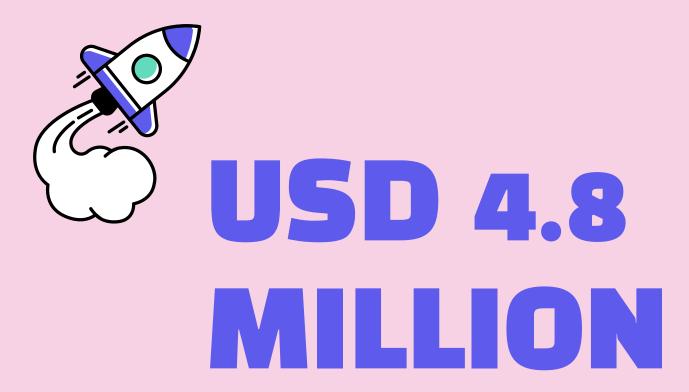
RM 25

Average Spending per delivery

RM 20 Million

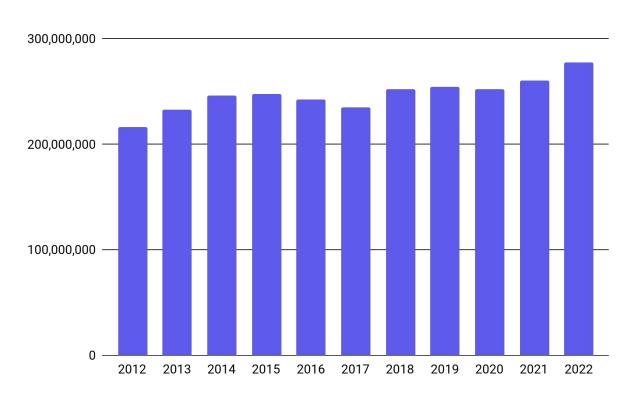
Potential Revenue (after rounding up)

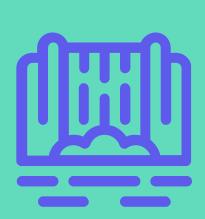




Wow thats big number!

Carbon Emission in Malaysia in 10 Years



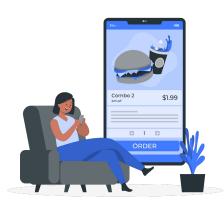


280 Million
Tonne

You can feed a country with this much food.

CHALLENGES FACED IN FOOD DELIVERY INDUSTRY TO REDUCE CO2 EMISSION

CUSTOMER BEHAVIOUR



TRANSPORTATION EMISSION



Packaging Waste



OBJECTIVES

OUR AIM

To reduce packaging waste and transportation emissions in food delivery services by **promoting sustainable consumer choices** and **eco-friendly logistics**

THE GOAL

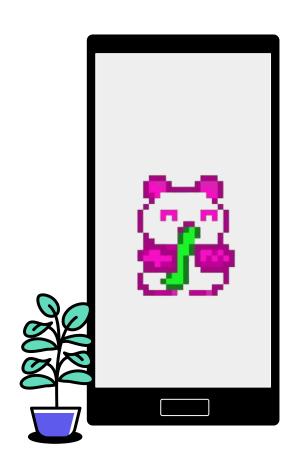
Encourage the adoption of **greener packaging** and prioritize delivery options using **electric vehicles**, ultimately **reducing the carbon footprint** of food delivery systems





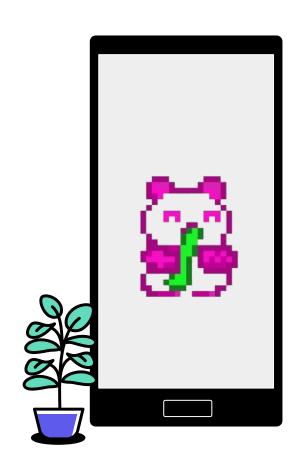


GAMIFYING _INITIATIVES & INCENTIVES



Poli

Your virtual companion on a greener journey, one bamboo at a time.



Encourage users to make eco-friendly choices



Welcome to ABC



Nasi Lemak

RM 10



- 0 +

Satay

RM 5



Roti Canai

RM 2



2x Roti Canai RM 5.00 RM 5.00 Delivery charge

RM 10.00 Total:

Bamboo points 3 points



miro





Statistic



Points 33

Contribution



0.04%

Carbon footprint reduction



Schedule order



8

Eco ride



15

Vegan food



6

No cutlery

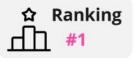


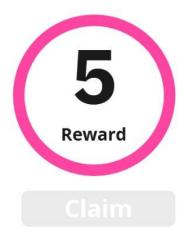
6



Leaderboard

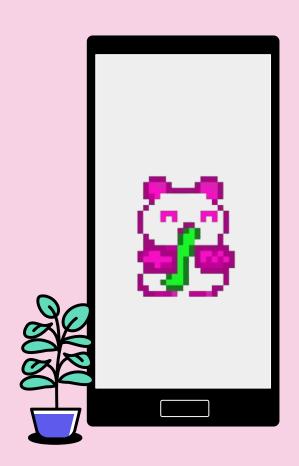
End of season







miro



Poli will also receive food to eat

As Poli eats, it will grow, "Level up" and can provide additional rewards.

Tier based rewards*

ECOFRIENDLY ECOFRIENDLY DELIVERY METHOD PLASTIC BAG

- Incentives for EV Riders & Walkers
 - More incentive if they receive eco-friendly orders





- Collaborate with and incentivize vendors to adopt FoodPanda's biodegradable plastic bags.
- Opportunity to make more revenue

POSITIVE CHANGES WITH POLI

Increase in Ecofriendly Preference

Increase Low-Emission Delivery Reduction of Longterm Waste





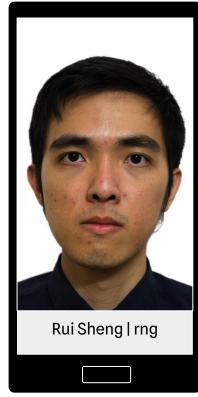


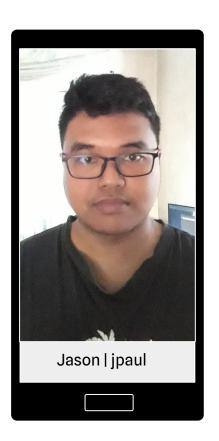
















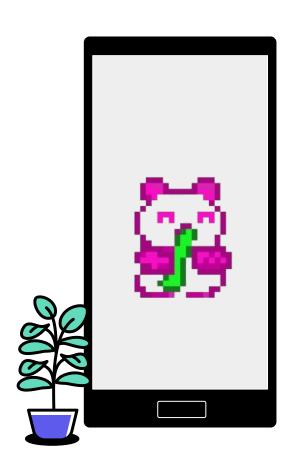




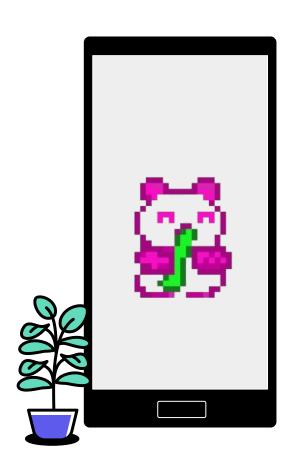


"To be Courageous in making new changes"

Thank You



Appendix



Appendix

Data on overall CO2 Emission

Malaysia CO2 Emissions

Fossil CO2 Emissions (2022) **277,531,770 tons**

Yearly Change

+6.50%

Share **0.73%**

Global

73%

Tons per capita **8.00**

Malaysia CO2 emissions by Year (tons)

200M

100M

0

100M

0

100M

100

https://www.worldometers.info/co2emissions/malaysia-co2-emissions/ #

News on eMotorcycle Rebate

THE RISE OF ELECTRIC BIKES PROMPTS SPECULATION ABOUT WHETHER THEY REPRESENT THE FUTURE OF TRANSPORTATION. THEIR INCREASING POPULARITY, COUPLED WITH ADVANCEMENTS IN BATTERY TECHNOLOGY AND INFRASTRUCTURE, SUGGESTS THAT E-BIKES COULD INDEED PLAY A SIGNIFICANT ROLE IN SHAPING THE FUTURE OF URBAN MOBILITY.

By offering a sustainable alternative to traditional transportation methods and addressing concerns such as traffic congestion and air pollution, electric bikes have the potential to revolutionize urban commuting and recreational cycling alike.

Malaysia sees a rising trend in electric mobility, notably in the growing availability of electric motorcycles. The benefits of EV motorcycles are increasingly clear, aided by government support. In Budget 2024, an incentive scheme was launched to promote EV adoption. This signals a significant push towards a sustainable transportation scheme that offers the public a **substantial rebate of up to RM2,400** upon purchasing an electric motorcycle. Eligibility for this rebate extends to individuals earning less than RM120,000 annually or less than RM10,000 monthly.

https://imotorbike.my/news/2024/05/revving-towards-the-future-malaysias-electric-motorcycle-movement/

Cost of eBikes

The average price for e-bikes in Malaysia can vary widely based on factors such as brand, specifications, and features. However, as of recent data:

Entry-Level E-Bikes: Typically range from RM 1,500 to RM 3,000.

Mid-Range E-Bikes: Generally priced between RM 3,000 to RM 6,000.

High-End E-Bikes: Can go from RM 6,000 to RM 10,000 or more, depending on advanced

features and technology.

https://www.usjcycles.com/bicyclesonline/e-bikes/

Proposed calculation for plastic bag incentives

Assuming in Malaysia food panda takes 30%, food panda can take 20% instead and restaurant gets more.

EG: for RM 20 meal, Restaurant takes RM16 (80%) and Food Panda takes RM4 (20%); excluding delivery cost.

User opting for the plastic bag, food panda may charge RM 0.20 to RM0.50 as it cost about RM 0.15

Ensuring restaurant uses the plastic bag

Since riders are required to take pictures as proof of pickup, rider can also verify that if vendor also used the provided plastic bag, in condition that users ordered the ecoplastic option. Vendors can be penalised for failing to do so.

Users could also verify upon receiving, therefore both vendor and driver are eligible for penalty

Making revenue from plastic bag ad

Food panda can set a certain amount for other party to pay in order to advertise along side food panda for limited number of time

Since food panda have full control, they can experiment the best design to attract users and also create a seasonal festive design. They can also set a higher price during these festive seasons.

Target Audience

Environmentally conscious users:

Wary of how they spend & what they do and contribute.

Competitive users:

- Have excess money and is willing to spend and wants to get more point for the sake of "green" accomplishment.

Interested but unsure

- May be interested but unsure where to start.
- Interested and willing to commit but does not have the resources or time to contribute to lesser carbon due to a busy life style

What can the bamboo point be redeemed for?

For users:

- Redeem more voucher
- Redeem eco friendly product (eg Limited edition reusable food containers)
- Convert bamboo to original panda point (but not panda point to bamboo)

For deliverers (eRiders & walkers):

- Sport Shoe discounts/vouchers
- Vouchers for EV charging

A way to compliment, not replace, Food Panda's reward system

While current reward system can exist and still function as usual, bamboo point will specifically focus and be rewarded for eco friendlier options.

In fact, bamboo point can encourage environmentally concious & competitive users to buy subscription where it provide benefits like:

- Cheaper cost of eco plastic
- Increased amount of bamboo received (1.5x)
- Panda grow faster

Comparison of Gasoline Vehicle vs EV

Lifetime Emissions

- ICEVs: Over their entire lifecycle, ICEVs typically have higher emissions due to continuous fuel combustion.
- **EVs**: Despite higher initial emissions from production, EVs generally have lower lifetime emissions. <u>Studies show that EVs contribute fewer GHG emissions over their entire lifecycle compared to gasoline-powered cars2.</u>

Air Quality and Health

- ICEVs: Emit pollutants that contribute to smog and respiratory problems.
- **EVs**: Help improve air quality by eliminating tailpipe emissions, which is particularly beneficial in urban areas.

Energy Efficiency

- **ICEVs**: Less efficient, with a significant amount of energy lost as heat.
- **EVs**: More efficient, converting a higher percentage of energy from the battery to power the vehicle.

Comparison of Gasoline Vehicle vs EV

Production Phase

- **ICEVs**: Manufacturing traditional vehicles involves emissions from producing steel, aluminum, and other materials. However, the production process is generally less carbon-intensive than that of EVs.
- EVs: The production of EVs, particularly their batteries, is more carbon-intensive due to the extraction and
 processing of materials like lithium, cobalt, and nickel. This can result in up to 80% more emissions during
 manufacturing compared to ICEVs1.

Operational Phase

- **ICEVs**: These vehicles emit greenhouse gases (GHGs) directly from their tailpipes, including carbon dioxide (CO2), nitrogen oxides (NOx), and particulate matter (PM). The average gasoline car emits more than 350 grams of CO2 per mile driven1.
- EVs: EVs produce no tailpipe emissions. However, the emissions associated with charging them depend on the energy mix of the electricity grid. In regions with a high share of renewable energy, EVs have a much lower carbon footprint. On average, EVs emit about 200 grams of CO2 per mile driven, considering the current energy mix1.

https://www.helipro.com.my/biodegradable-plastic-bag/ https://www.epa.gov/greenvehicles/comparison-your-car-vs-electric-vehicle